

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

021125

7590

08/24/2006

NUTTER MCCLENNEN & FISH LLP
 WORLD TRADE CENTER WEST
 155 SEAPORT BOULEVARD
 BOSTON, MA 02210-2604



Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Thomas J. Engellenner (Depositor's name)

(Signature)

November 21, 2006 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,831	09/12/2003	Qing Hu	101328-0178	7713

TITLE OF INVENTION: TERAHERTZ LASERS AND AMPLIFIERS BASED ON RESONANT OPTICAL PHONON SCATTERING TO ACHIEVE POPULATION INVERSION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$0	\$1000	11/24/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
VAN ROY, TOD THOMAS	2828	372-040000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB-122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB-47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Thomas J. Engellenner

2 Reza Mollaaghababa

3 Nutter McClennen & Fish LLP

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR ~~10/27/2006~~ SZENDIE2 00000041 10661831

Massachusetts Institute of Technology

Cambridge, MA

01 FC:2501
02 FC:1504

700.00 OP
300.00 OP

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
- ☒ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☒ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge ~~ANY ADDITIONAL~~ fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 141449 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date November 21, 2006

Typed or printed name _____

Thomas J. Engellenner

Registration No. 28,711

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



Thomas J. Engellenner
Direct Line: 617-439-2948
Fax: 617-310-9948
E-mail: tengellenner@nutter.com

November 21, 2006

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

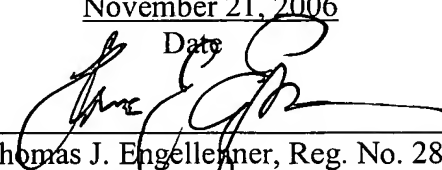
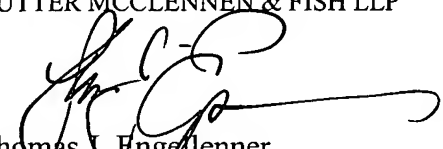
RE: U.S. Patent Application Serial No. 10/661,831, Filed September 12, 2003
"Terahertz Lasers and Amplifiers Based on Resonant Optical Phonon Scattering
to Achieve Population Inversion" by Qing Hu, *et al.*
Examiner: Tod Thomas Van Roy, Group Art Unit: 2828
Confirmation No. 7713
Attorney Docket No. 101328-178

Dear Sir or Madam:

I enclose herewith for filing in the above-identified application the following:

1. Issue Fee Transmittal Form (PTOL-85) (with attached Certificate of Mailing);
2. Check in the amount of \$1,000.00 (in payment of Issue Fee/small entity: \$700.00, and Publication Fee: \$300.00); and
3. Acknowledgment postcard.

Please charge any additional fees or credit any overpayment to our Deposit Account No. 141449. The undersigned requests any extensions of time necessary to respond. A duplicate copy of this letter is enclosed.

<p>I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date set forth below.</p> <p style="text-align: center;">November 21, 2006 Date</p> <p>By  Thomas J. Engellenner, Reg. No. 28,711</p>	<p>Respectfully submitted,</p> <p>NUTTER MCCLENNEN & FISH LLP</p> <p> Thomas J. Engellenner Reg. No. 28,711</p>
---	---

TJE:mrr/Enclosures

1581491.1

NUTTER MCCLENNEN & FISH LLP • ATTORNEYS AT LAW

World Trade Center West • 155 Seaport Boulevard • Boston, Massachusetts 02210-2604 • 617-439-2000 • Fax: 617-310-9000

www.nutter.com

BEST AVAILABLE COPY